THERE WILL BE NO CHANGES IN SPECIFICATION, DIMENSIONS, OR MATERIALS UNLESS APPROVED BY THE ENGINEER RESPONSIBLE FOR THIS DRAWING.

THE DRAWINGS ARE PREPARED COOPERATIVELY BY THE NATURAL RESOURCE CONSERVATION SERVICE FOR THE NAMED LANDOWNER. CONSTRUCTION FOUND NOT IN ACCORDANCE WITH THESE DRAWINGS AND SPECIFICATIONS SHALL VIOLATE THE COOPERATIVE AGREEMENT AND ALL DRAWINGS, SPECIFICATIONS, AND QUANTITIES ESTIMATE SHALL IMMEDIATELY BE RETURNED TO THE LOCAL NRCS OFFICE.

THE CONTRACTOR/OWNER IS TO NOTIFY THE SOIL CONSERVATION DISTRICT AT LEAST 72 HOURS PRIOR TO CONSTRUCTION TO SCHEDULE A PRECONSTRUCTION MEETING, FACILITATE ANY SCHEDULING, LAYOUT, OR PRELIMINARY MOBILIZATION NECESSARY TO ENSURE PROPER CONSTRUCTION INSPECTION TO ENABLE APPROPRIATE CERTIFICATION OF THE PROJECT. A CONSERVATION TECHNICIAN SHALL VERIFY CUT/GRADE STAKES AT THE CONTRACTORS REQUEST.

THE OWNER/OPERATOR GIVES PERMISSION FOR MDE AND COE INSPECTION.

IT IS THE LANDOWNER'S RESPONSIBILITY TO OBTAIN ALL COUNTY, STATE, AND FEDERAL PERMITS THAT MAY BE NEEDED, AND TO MAINTAIN THIS STRUCTURE AND RELATED REGULATIONS.

ALL EXCAVATION AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MARYLAND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (MOSHA) STANDARDS AS SET FORTH IN THE LATEST VERSION OF THE CODE OF MARYLAND REGULATIONS.

LANDOWNER - SITE NAME 313 POULTY WASATE STORAGE STRUCTURE 40FT WIDE



Know what's **below**. **Call** before you dig.

"The Soil Conservation District makes no representation as to the existence or Non-existence of any utilities at the construction site. Shown on these construction drawings are those utilities which have been identified. It is the responsibility of the landowners or operators and contractors to assure themselves that no hazard exists or damage will occur to utilities"

Backfill placement and compaction

Other items shown on the plans:

Signs in Place (Made of all-weather material):

All disturbed areas seeded and mulched:

Producers are responsible for securing grading, building, electrical, and plumbing permits to install the required facilities and for properly managing the facility.

CRITICAL INSPECTION ITEMS - (Roofed Waste Storage Facility and/or Covered Feeding Area)

1. The landowner will arrange for a pre-construction meeting between the contractor, NRCS and landowner to review the plans, standards and specifications prior to the start of construction.

2. There will be no changes in specifications, dimensions, or materials unless approved by the engineer responsible for

- this drawing.

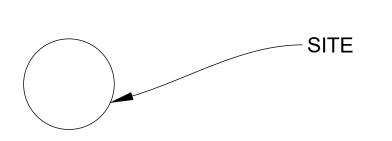
 3. The drawings are prepared cooperatively by the Natural Resources Conservation Service for named owner/operator.

 Construction found not in accordance with these drawings and specifications shall violate the cooperative agreement
- and all drawings, specifications, and Quantities Estimate shall immediately be returned to the local NRCS office.

 4. The following is a list of items that must be inspected by the Technician-in-Charge. If cost share is involved, payment

ma	ry be forfeited if the Technician-in-Charge does not inspe	ct all of the below:		
•	Preconstruction Meeting	Date:	Initials:	
•	Verify layouts:	Date:		
•	Verify all subgrades:		Initials:	
•	Verify all subgrade materials CR-6 etc:	Date:	Initials:	
•	Verify reinforcing steel grade, size and placement:			
	Footings:	Date:	Initials:	
	Walls and/or curbs:		Initials:	
	Floor:	Date:	Initials:	
•	Inspect all concrete in accordance with specifications:			
	Footings:	Date:	Initials:	
	Walls and/or curbs:	Date:	Initials:	
	Full dimension wall ties:	Date:	Initials:	
	Floor:	Date:	Initials:	
•	Proper curing of concrete:		Initials:	
•	Patching wall ties, holes and honeycombing:		Initials:	
•	Roof inspection in accordance with plans:			
	Posts size, material and installation:	Date:	Initials:	
	Preservative treatment or use code:	Date:	Initials:	
	Anchors or embedment installation:	Date:	Initials:	
	Header size, material and installation:	Date:	Initials:	
	Hardware size, spacing, and type:	Date:	Initials:	
	Knee brace (post to truss) size and material:	Date:	Initials:	
	Hardware size, spacing, and type:	Date:	Initials:	
	Y brace (post to header) size and material:	Date:	Initials:	
	Hardware size, spacing, and type:	Date:	Initials:	
	Hurricane straps:	Date:	Initials:	
	Received/reviewed truss design sheet:	Date:	Initials:	
	Purlins material and installation:	Date:	Initials:	
	Hardware size, spacing, and type:	Date:	Initials:	
	Roofing, material and installation:	Date:	Initials:	
	Hardware size, spacing, and type:	Date:	Initials:	
•	Subsurface Drainage (if applicable)			
	Trench grade:	Date:	Initials:	
	Drain tubing material:	Date:	Initials:	
	Stone envelope:	Date:	Initials:	
	Backfill placement:	Date:	Initials:	
	Proper outlet and rodent guard:	Date:	Initials:	





DESIGN NOTE:

A site-specific design, in addition to the pre-qualified drawing is required. The site-specific design shall include a location map, plan view, dimensions, soil conditions, high water table, drainage components, and construction specifications needed to complete the project.

REVISED 4/1/2019

LOCATION MAP 200 0 200 400 Scale in Fact

USER TO ENTER SHEET NAMES

SHEET	TITLE	
	Plan view sheet/Building view detailsBuilding pad details/Framing details	

AS-BUILT STATEMENT

THE CONSERVATION PRACTICE(S) MEETS OR EXCEEDS NRCS STANDARDS AND SPECIFICATIONS		
INSPECTED BY	SIGNATURE	DATE
CONSTRUCTION APPROVAL	SIGNATURE	DATE
VERIFIED DISTRICT CONSERVATIONIST	SIGNATURE	DATE

AS BUILT CONTRACT ITEMS:	Reportable	Contract
PRACTICE	Amount	Amount
313 Waste Storage Facility		
367 Roofs and Covers		
561 Heavy Use Area		

USER TO ENTER PRACTICES

OWNER/CONTRACTOR STATEMENT

I CERTIFY THAT THIS DESIGN HAS BEEN EXPLAINED TO ME BY A REPRESENTATIVE OF THE COUNTY SOIL CONSERVATION DISTRICT, AND I UNDERSTAND THE CONTENTS, ALL CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND SPECIFICATIONS, I FURTHER UNDERSTAND THAT ALL CONSTRUCTION WILL BE UNDER THE INSPECTION OF THIS OFFICE.

OWNER/OPERATOR SIGNATURE	DATE	
CONTRACTOR'S SIGNATURE	DATE	
DON TITAL TOTAL OT OTTAL	DATE	

All disturbed areas to be stabilized within 7 days of completion, using the following recommendations.

eeding Recommendations

Tall Fescue Perennial Ryegrass or 5 lb/ac Redtop (tolerates moist sites) 2 lb/ac White Clover 5 lb/ac 20-40-40 Fertilizer 500 lb/ac Ground lime 50% oxides 3 tons /ac Straw Mulch 2 tons/ac Dates listed are for plant hardiness Zone 6B dates will need to be changed for other zones. Seeding Dates March 1 thru May 15

It is the landowner responsibility to obtain All County, State, and Federal permits that may be needed, and to maintain this structure and those regulations.

August 1 thru October 1

USER TO ENTER SEEDING INFO

MATERIALS LIST

* For bidding purposes only



SIGN REQUIRED FOR ALL MANURE STACKING
STRUCTURES.
PLACE ONE SIGN AT EACH
ENTRANCE/ACCESS POINT.
SIGN TO BE MADE OF DURABLE MATERIAL
(PLASTIC/ALUMINUM OR EQUAL)
MINIMUM SIZE 10"W X 14"H

40FT NAME Distri SITE GE STORA **IDOWNE** 4 \mathcal{C}

> United States Department of Agriculture

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File Name
MD 0021 PWSS(40FT).dw

Drawing No. MD 0021

Sheet 1 of 3

*DOUBLE CLICK BLOCK TO ENTER LENGTH OF STRUCTURE 2"x8" Planking w/ 2-16d (3PDN 31/4" long) Length (based on storage requirement) 8"x8"x7' P.P.T. or 4ply 2"x8"x7' 4'-0" typ. glulam post, 4'-0" o.c. — Note: The end wall may be eliminated to facilitate loading and unloading as determined by the Optional back pushwall (see detail) -*USER TO INSERT TOPO SURVEY* 2"x6"x3' Nailer at each corner **Backwall Elevation** (see detail c) **Optional Backwall** P.P.T. Post **DESIGNER NOTE:** A SITE-SPECIFIC DESIGN IS REQUIRED AND SHALL INCLUDE A Optional push wall (See detail for push wall type) LOCATION MAP, PLAN VIEW, DIMENSIONS, SOIL CONDITIONS, HIGH WATER TABLE, DRAINAGE COMPONENTS, AND CONSTRUCTION SPECIFICATIONS NEEDED TO COMPLETE THE PROJECT. 2"x8" Planking 2"x6"x3' Nailer A 6"x6"x7' or 3ply 2"x6"x7' glulam or 8"x8"x7' or 4ply 2"x8"x7' glulam post Note: All truss spans shall be specified with 2' overhang on both may be substituted for the nailer sides from outside of post See Detail C PLAN MAP **PLAN VIEW** NOT TO SCALE *USER TO ENTER SCALE* OPEN BACKWALL DETAIL *DOUBLE CLICK BLOCK TO ENTER FASTENER AMOUNTS Not to scale Roof material shall be minimum 29 gage galvalume or galvanized (G90 or L= $2\frac{7}{8}$ ", D= 0.191"-Roofing construction note: All Glulam post must meet the following specifications: Roofing material must be stored properly in accordance with the manufacturer's recommendations. Roofing material must be ____ 2"x4" Purlins, 2'-0" O.C. w/2 -10d (3PD 3" long) (Model HLGM278) 3ply 2"x6" (5.25"x4.0625") Glulam f_b=2050psi covered if it is stored outside to prevent premature deterioration. nails at each truss 4ply 2"x8" (7.0"x5.375") Glulam f_b=2350psi ## HeadLOK Aluminum roofing may be used in lieu of steel. Roof shall be designed considering expansion and contraction and Post shall be notched 2" at the top to provide bearing L=2 $\frac{7}{8}$ ", D= 0.191" compatibility with other metals. The aluminum roofing shall have a minimum thickness of 0.018 inches and a maximum sheet surface for the truss (Model HLGM278) length of 16 feet. Joints shall have sufficient overlap and fastened with stainless steel screws. The fastener holes shall be - 2-16d (3 PDN 3 1/4" long) nails drilled and slotted and neoprene washers used. Install 1ea H10A Simpson Tie or equivalent to meet 920lb uplift at each post and header connection. (Truss design may require higher 2"x6" Band Board w/ uplift, uplift must be shown on truss design and contractor to use 4-16d (6 PDN 3 ¹/₄" long) - Glulam or nail/glulam for the posts - Post to be same size as side posts. appropriate anchor(s) meeting the uplift requirements by the truss nails at each post Posts must attach to the top of the bottom chord of truss. Gable end truss 2"x6" Knee brace -- 18" of ventilation space must be provided ## HeadLOK L=4 $\frac{1}{2}$ ", D= 0.191" (Model HLGM412) _ Nail end truss to post with 4-16D (6 PDN 3 ¹/₄" LONG) 1"x12" at >45° — P.P.T. Post @ 4'-0" o.c. angle between each Vertical siding, purlins @ 2'-0"o.c. required for vertical installation (3 PDN 3" nails @ each post) or 3/4"X4'X8' EXT C-C Structural L Plywood with 8d (1 PDN 3 $\frac{1}{4}$ " Double 2"x6" pushwall (inside) cap long) nails every 8" along each plywood side Corner post pushwall with board or planking set at 45° (See sidewall Section A-A) Siding not shown for clarity 2"x8" P.P.T. See Section A-A on Planking w/ 2 - 16d this sheet for siding details.

4'-8" 4' typ.

4' typ. 4'-8"

40' Inside width

Backwall Elevation

Optional Full Backwall

(8 spaces @ 4'-0"; 2 spaces @ 4'-8")

The backwall foundations are the same

as the side wall foundations. See

Section A-A for footing dimensions.

2"x4" Nailer on each post

4000PSI Concrete

hours prior to use

place concrete (5" thick)

Positive drainage away from building

Pre-cast concrete pill (5" thick) or poured in

All poured in place concrete shall cure 24

(3 PDN 3" long) nails at each post

12" Compacted base

(required) -

18" min

Section

not to scale

(SC,SC-SM,GC,GC-GM) -

½"x14" #4 Steel rod

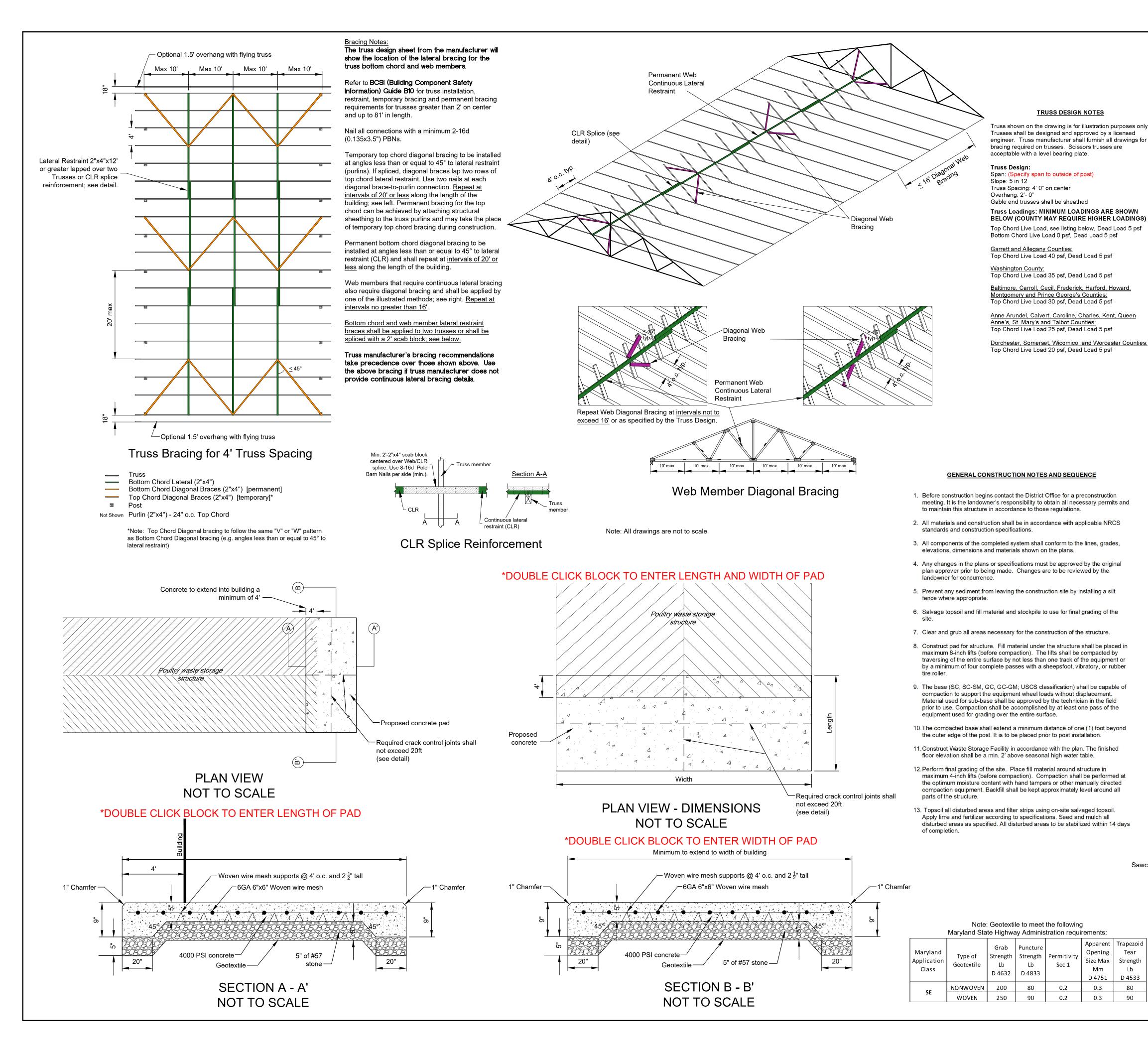
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nails at each post

12" Compacted base (SC,SC-SM,GC,GC-GM)

Concrete



TIMBER CONSTRUCTION NOTES

TRUSS DESIGN NOTES

Fruss shown on the drawing is for illustration purposes only.

Top Chord Live Load 25 psf, Dead Load 5 psf

Top Chord Live Load 20 psf, Dead Load 5 psf

1. All lumber below the fascia board level shall be preservative pressure treated Southern Yellow Pine, No.2 KD, 19% m.c. or better. All other lumber may be either Southern Yellow Pine or Spruce-Pine-Fir No. 2 or better unless specified otherwise. Protection such as clear preservative, paint, or pressure treatment shall be required for the plywood. Timber shall be pressure treated in accordance with the chart below.

Use Codes for Treate	ed Building Materials
Use Code for Ground or Manure Contact Lumber	UC4B
Use Code for all other Treated Lumber	UC4A

- 2. Glulam posts used as columns shall be CCA pressure treated to a 0.60 retention factor a minimum 12" above the ground line on the ground contact end.
- 3. All metal hardware and nails shall be stainless steel or hot-dip galvanized (HDG). Stainless steel shall be grade types 304 or 316. Hot dipped galvanized fasteners shall conform to ASTM A 153 and hot-dip galvanized connectors shall conform to ASTM Standard A 653 (Class G-185).

All fasteners, connectors, and any other metal contacting ACZA, ACQ or CA treated wood shall be stainless steel.

There may be additional products (other than stainless steel and hot-dip galvanized) which are suitable for use in treated wood except for the types listed in the note above. These screws and connectors have proprietary anti-corrosion technologies and are acceptable for treated wood exposed to moisture when used according to the hardware manufacturer's recommendations and must be clearly marked "for use with" the **type** of treated wood being used.

- 4. All structural nail connections must be nailed with twisted or ring shank nails, unless otherwise as shown.
- 5. Power driven nails (PDN) shall be 0.131 Diameter or larger, deformed shank, and helical (spiral) or annular (ring) type. The number and length of 0.131 diameter power driven nails is specified in parenthesis next to each connection. Pressure shall be applied to wood members to insure tight joints when using power driven nails. The head of the nail may not be countersunk more then 1/16" into the wood.

CONCRETE CONSTRUCTION SPECIFICATIONS FLAT WORK ONLY - POULTRY HUA Revised 07/17

- 1. All materials and construction shall be in accordance with applicable NRCS Practice Standards and ACI-
- Any changes in the plans or specifications must be approved by the design approver prior to being made. Changes are to be reviewed by the landowner for concurrence
- Concrete shall have Type IA or IIA cement, 28-day compressive strength of 4,000 psi, 5% air entrainment and a slump of 3 to 5 inches. Air entrainment admixtures shall conform to ASTM C260
- 4. Reinforcing steel shall conform to ASTM A615, Grade 60 steel. All reinforcing material shall be free of dirt, loose rust, scale, oil, paint or other coatings. The steel shall be accurately placed into position, as shown on the plans, and securely restrained and blocked into position prior to placement of concrete Insertion of steel into fresh concrete is not permitted. Reinforcement steel shall have a minimum of 2 inches of concrete cover against all forms and 3 inches against soil, unless otherwise shown on the plans. All other reinforcement steel splices shall overlap a minimum of 18 inches. Welded wire mesh shall conform to ASTM A1064 and overlap a minimum of 6 inches. The welding of reinforcing steel is not
- Waterstop will be used as shown on the plans and at all cold and construction joints. The type of waterstop will be approved by the field technician prior to use.
- Plasticizing or plasticizing and retarding admixtures may be used and shall conform to ASTM C1017 or ASTM C494 Types F or G.
- Concrete shall be delivered to the site and discharged completely into the forms within 90 minutes after the truck leaves the plant. This time shall be reduced to 45 minutes when the atmospheric temperature is over 90° F. The concrete shall be maintained at a temperature below 90° F during mixing, conveying retarding admixtures shall conform to ASTM C494 Types A, B, D, F or G.
- Concrete shall not be placed when the daily minimum atmospheric temperature is less than 40° F unless facilities are provided to prevent the concrete from freezing. The concrete shall be protected from freezing for a minimum of 7 days or the concrete shall be kept at a temperature of 55° F for a minimum of 3 days. Accelerating or water-reducing and accelerating admixtures shall be noncorrosive and conform to the requirements of ASTM C494, Types C and E. Cold weather concreting procedures shall conform to ACI-
- Concrete shall be kept continuously moist for the curing period after the placement of the concrete. Moisture may be applied by spraying or sprinkling as necessary to prevent the concrete from drying. Concrete shall not be exposed to freezing during the curing period. Curing compounds may be used in lieu of the application of moisture. Curing compounds shall conform to ASTM C309, Type 2.
- 10. Defective concrete, honeycombed areas, voids left by the removal of tie rods, ridges on all concrete surfaces permanently exposed to view or exposed to water, shall be repaired immediately after the removal of forms. All voids shall be reamed and completely filled with quickset, non-shrink hydraulic
- 11. Concrete surfaces shall be screeded, floated, troweled and broom finished unless otherwise approved.
- 12. Fill material under concrete shall be accomplished by placing maximum 8-inch lifts (before compaction). The lifts shall be compacted by the transversing of the entire surface by not less than one track of the equipment or by a minimum of four complete passes with a sheepsfoot, vibratory, or rubber tire roller Compaction around structure (i.e. around pipes, adjacent to walls, etc.) shall be accomplished by placing fill in maximum 4-inch lifts (before compaction) and compacting by means of hand tampers or other manually directed compaction equipment.
- The technician shall determine if the moisture contect is suitable for fill placement. The contractor shall make adjustments as directed by the technician. The method of compaction shall be approved prior to

- Install waterstop or seal top $\frac{1}{4}$ " with elastomeric

sealant and backer rod shall be $\frac{1}{8}$ " larger than the

width of joint

Sawcut 1 $\frac{1}{4}$ " ($\frac{1}{4}$ " depth slab

Apparent

Opening

Lb

Lb

80

90

Sec 1

0.2

0.2

Size Max

Mm

D 4751

0.3

0.3

Trapezoid

Strength

Lb

D 4533

thickness)_

Note: Crack controlled joints are required for all pads. The perpendicular distance shall not be greater than 20ft.

NOT TO SCALE

CRACK CONTROL DETAIL

40F Distri URE ation

NAME

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